

Title (en)

Method of forming a synthetic image in simulation system for attachment of spectacles.

Title (de)

Verfahren zum Formen eines synthetischen Bildes in einem Simulationssystem zum Anpassen von Brillen.

Title (fr)

Méthode pour former une image synthétique dans un système de simulation d'application de lunettes.

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Application

EP 87113698 A 19870918

Priority

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Abstract (en)

The invention provides a method of making a synthetic image in a simulation system for attachment of spectacles which comprises: a computer (11) having a CPU (7), an A/D converter (4), an image memory (5), a D/A converter (6), a frame data memory (8) of spectacles frame data taken in at a first synthetic magnification, a program memory (9), an operating means (10); an imaging apparatus (3); and a display apparatus (12), and in which a synthetic image of the image pickup data of the spectacles frame (313) taken in at the first synthetic magnification and the image pickup data of a person's image derived from the imaging apparatus (3) is made by the computer (11), and a state in which the person wears a pair of spectacles is displayed by the display apparatus (12), wherein this method is characterized by comprising the steps of: calculating a second synthetic magnification to an actual person of the display image on the display screen on the basis of the coordinates of the positions of the apexes of the corneas of both of the right and left eyes which are detected from a still image on the display screen of a person who does not wear a pair of spectacles which is picked up by the imaging apparatus (3) and is transmitted to the computer (11) and on the basis of the information of the distance between the pupils of the person which is input from the operating means (10) of the computer (11); calculating the spectacles frame synthetic position on the display screen and a third synthetic magnification of the person's image and spectacles frame image on the basis of the second synthetic magnification; and displaying the synthetic image of the person and spectacles frame (313) by the display apparatus (12).

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Cited by

EP1299787A4; FR2650679A1; EP0363281A3; FR2943147A1; FR2790112A1; DE3736932A1; DE4206355A1; DE4206355C2; WO0144868A1

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